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## UNIVERSITY OF MISSOURI

Charles Brooks: "The Fruit Spot of Apples; a Morphological and Physiological Study."

Caroline McGill: "The Structure of Smooth Muscle in the Resting and in the Contracted Condition."

## LELAND STANFORD JUNIOR UNIVERSITY

William Draper Harkins: "Papers on Smelter Smoke."

Mary Isabel McCracken: "Studies in Heredity."

## UNIVERSITY OF VIRGINIA

William Allison Kepner: "The Nutrition of the Ovum of *Scolia dubia*."

John Jennings Luck: "The Structures of the Non-integrable Groups of Seven Parameters."

## BRYN MAWR COLLEGE

Helen Elizabeth Schaeffer: "A Study of the Electric Spark in a Magnetic Field."

## DARTMOUTH COLLEGE

Leland Griggs: "The Early Development of the Nervous System of *Amblystoma*."

## UNIVERSITY OF MICHIGAN

John Serenus Bordner: "The Longitudinal Traction on the Formation of Mechanical Tissue in Plant Stems."

## UNIVERSITY OF MINNESOTA

Henry Anton Erikson: "The Ionization of Gases at High Pressures."

## UNIVERSITY OF NEBRASKA

Leroy Dey Swingle: "The Development of a Herpetonionadine Parasite of the Sheep-tick." "The Embryology of *Myosurus minimus*."

## NEW YORK UNIVERSITY

Martin A. Rosanoff: "Determination of Chlorides and Bromides in the presence of Cyanides."

## VANDERBILT UNIVERSITY

James Harrison Scarborough: "The Computation of the Orbit of Planet."

## WASHINGTON UNIVERSITY

Henri Theodore Antoine Hus: "An Ideal Ecological Cross-section of the Mississippi River in the Vicinity of St. Louis, Mo."

## WASHINGTON AND LEE UNIVERSITY

Mosby Garland Perrow: "Determination and Comparison of the Atomic Volume Contraction in the Isomorphous Series,  $R'M''(SO_4)_2 \cdot 12H_2O$  and  $R_2'M''(SO_4)_2 \cdot 6H_2O$ ."

## SCIENTIFIC NOTES AND NEWS

DR. L. H. BAILEY, of Cornell University, has consented to accept the chairmanship of the commission appointed by President Roosevelt to report upon the social and economic conditions of agricultural life.

OXFORD University will confer the degree of doctor of science on Professor Svante Arrhenius and on Dr. Vernon Harcourt on October 8, on the occasion of the celebration of the jubilee of the University Museum.

ON the occasion of the recent unveiling of the Bunsen monument at Heidelberg, honorary doctorates were conferred on Professor Adolf von Baeyer, and on Professor J. H. van't Hoff.

A COMMITTEE has been formed in England to present a national testimonial to Mr. Francis George Heath in recognition of his labors in arousing public interest in the preservation of open spaces, woods and forests.

THE staff of the Division of Pharmacology of the Hygienic Laboratory, Washington, D. C., has been enlarged by the following appointments: Dr. W. H. Schultz, formerly instructor in physiology and pharmacology, University of Missouri; Dr. Worth Hale, formerly instructor of pharmacology, University of Michigan; Dr. M. G. Motter, formerly professor of physiology at Georgetown University and secretary of the Board of Trustees of the United States Pharmacopeia, and Mr. W. I. Wilbert, formerly of the German Hospital, Philadelphia. The addition to the Hygienic Laboratory, provided for by congress a year ago, is nearing completion; it will enable the laboratory to extend its work considerably.

MR. GEORGE L. FAWCETT, for three years laboratory assistant in the United States Subtropical Laboratory at Miami, Florida, has been transferred to the Porto Rico Experiment Station at Mayaguez, where he is to be

plant pathologist. This promotion takes effect on September 15.

DR. W. H. WILLCOX, lecturer at St. Mary's Hospital Medical School, London, has been appointed senior scientific analyst to the British Home Office in succession to the late Sir Thomas Stevenson.

DR. ERIC A. NOBBS has been appointed director of agriculture in Rhodesia. He was graduated in agricultural science at the University of Edinburgh in 1899 and for the last six years he has been agricultural assistant to the Cape government.

DR. HEINRICH MORITZ has been appointed director of the Observatory of Rio de Janeiro.

DR. VON DER BORNE has been given charge of the earthquake station at Krietern, near Breslau.

MR. ROBERT NEWSTEAD, the lecturer in economic entomology and parasitology in the Liverpool School of Tropical Medicine, will go to Jamaica in the first week of November to undertake the investigation of the ticks there responsible for certain diseases in animals, and of disease-bearing insects. He may be accompanied by a medical research investigator, whose duties would be to investigate indigenous diseases of the island.

DR. SVEN HEDIN's family, at Stockholm, has received the following telegram from the secretary to the viceroy of India, dated Simla, August 31: "Dr. Sven Hedin is well after a hard and successful journey. He reaches Simla early in September and sends you hearty greetings."

IN spite of a heavy sea, the *Pourquoi Pas* left Cherbourg, on August 31, for Madeira. Mme. Charcot and Mme. Waldeck-Rousseau will leave the vessel at Buenos Ayres.

ON the occasion of the celebration of the fiftieth anniversary of the foundation of the University Museum, Oxford, a bust will be unveiled of the late Professor Weldon, who held the Linacre chair of comparative anatomy until his death in 1906.

DR. ERNST LOEB, the botanist, has died at Berlin at the age of sixty-six years.

DR. MAX ROSENMUND, professor of topog-

DR. L. P. BARCLAY, formerly representing the Bausch and Lomb Optical Company, died on September 1, at the Loomis Sanatorium, Liberty, N. Y.

DR. HENRY YOULE HIND died at Windsor, Nova Scotia, in August, at the age of eighty-five years. He was a native of Nottingham, England, but came to Canada in 1847, after receiving his education at Leipzig, Cambridge and in France. He was geologist to the Red River exploring expedition in 1857, and had charge of the Assiniboine and Saskatchewan expedition of the following year. He explored a part of Labrador in 1861, made a preliminary geological survey of New Brunswick in 1864, examined at a later date the gold districts of Nova Scotia, and explored mineral lands in Newfoundland in 1876.

ACCORDING to the London *Times* active preparations have been in hand for some time past in England and in New Zealand for the despatch of relief food-supplies and equipment for Lieutenant Shackleton and his comrades to McMurdo Sound in the Antarctic regions, where they are wintering preparatory to the sledge journeys to the south, east and west at the beginning of October. The supplies from London were shipped to Lyttelton, New Zealand, by the Royal mail steamer *Paparoa*, on September 3, and from Liverpool by the steamship *Surrey*, where they will be put on board the *Nimrod*; but meats, butter, cheese, woolen goods, etc., will be procured in New Zealand. The *Nimrod* will take food-supplies for thirty-eight men for one year, to provide against the possibility of being frozen in. A number of firms have made the expedition presents of their own commodities. The *Nimrod* will leave Lyttelton for the Antarctic on December 1, and she is at present in dry dock in that port undergoing repairs. The *Nimrod* left Lieutenant Shackleton and his party in the best of health at McMurdo Sound base, 77½ degrees south latitude, on February 22, and she returned to Lyttelton. She successfully landed all the stores at the above base before sailing, viz.: portable house, 33 feet by 19 feet by 8 feet; acetylene gas plant; two years' food-supplies, equipment, ponies, dogs, motor-car, coal, oil, etc., in fact everything neces-

raphy at the Zurich Polytechnic School, has died at the age of fifty-one years.

sary to make their stay there warm and comfortable for the winter. Captain F. P. Evans, R.N.R., by permission of Sir James Mills, chairman of the Union Steamship Company, of New Zealand, will command the *Nimrod* on her voyage to the Antarctic. It is hoped that news from the Antarctic will be received about March or April, 1909.

A TELEPHONE line has been installed to provide means of communication between the Queen Margherita Observatory on the Gniffet Peak, on Monte Rosa, and the observatory lower down the mountain. The carrying out of this line entailed many difficulties; the higher observatory is 14,960 feet above the sea. This building is only open for two months each year in the middle of summer.

#### UNIVERSITY AND EDUCATIONAL NEWS

THE regents of the West Virginia University, at their meeting in June, voted an increase of 10 per cent. in the salaries of all members of the faculty above the rank of instructor.

THE Board of Education of New York City asks for \$33,031,484.65 for the schools in the coming year, an increase of \$6,258,521.06 over 1908. The increase of about \$5,500,000 for this year is largely due to the proposed increase of teachers' salaries, this alone occasioning an increase in the budget of \$3,273,163.52. It is estimated that the increase in the number of pupils for 1909, will be nearly 25,000. To provide a teaching staff for the increased registration in the elementary schools alone will require employment of 9 men principals, 2 women principals, 3 male assistants to principals, 15 assistants to women principals, 102 men teachers, 636 women teachers, and 82 kindergartners, at a total additional expense of \$136,315.47.

LEIPZIG UNIVERSITY will celebrate the five hundredth anniversary of its foundation in July of next year.

THE foundations of the new hall of engineering of the University of Nebraska have been completed, and work has begun on the superstructure. The sum appropriated for

this building is approximately \$100,000, and it is hoped to have it completed by the opening of the fall semester in 1909.

THE newspapers *Reich* and *St. Petersburger Zeitung*, have been fined \$1,500 each for publishing articles criticizing the policies of Mr. Schwartz, the new minister of education. He is said to have issued an order that all university professors and instructors belonging to the constitutional democratic party should either renounce their political principles or give up their positions.

IT is reported that ten members of the faculty of the College of Physicians and Surgeons, San Francisco, have resigned.

PROFESSOR ARTHUR DEXTER BUTTERFIELD, for ten years professor of mathematics in the University of Vermont, has accepted a similar position in the Worcester (Mass.) Polytechnic Institute, from which he was graduated in 1892 and in which he was formerly instructor.

DR. GEORGE A. COE, professor of philosophy at the Northwestern University, has been appointed to a chair in the Union Theological Seminary, New York City.

DR. ERNST A. BESSY, pathologist in the United States Department of Agriculture, for the past three years in charge of the United States Subtropical Laboratory of Miami, Florida, has been elected to the professorship of botany in the University of Louisiana, at Baton Rouge. He will assume his new duties on October 20.

LIEUT.-COLONEL BOURGEOIS, chief of the geodetic section of the French Army Geographical Service, has been appointed to the chair of astronomy and geodesy in the Paris École polytechnique, vacant by the resignation of M. Poincaré.

#### DISCUSSION AND CORRESPONDENCE

##### SCHAEBERLE AND GEOLOGICAL CLIMATES

TO THE EDITOR OF SCIENCE: In Professor Schaeberle's last communication to SCIENCE, June 5, p. 894, he makes the statement that "it now rests solely with the scientists to demonstrate, if possible, that some vital flaw exists in my (Schaeberle's) published work (upon the effective surface temperature of